See attached resume for Rich Donlan, Operations Director for Gains International (US) Inc.

**Network Engineer**  7/2001- present
Gains International USA - New York, NY

- Engineer all private lines DS0, including PLAR, MRD, Hoot, E+M, FT1, T1, E1, DS3 for customer applications.
- Deployed a DACS based network using ATM for IXC interconnects.
- Selected colocation sites in North America for remote nodes.
- Oversee daily responsibilities for Network Operation Group.
- Work with provisioning on network procurement and design.
- Provide second tier support for troubleshooting and coordinating with equipment manufacturers.

**Operations Manager**  2/99-7/2001
Madge Networks - Gains International USA - New York, NY

- Evaluated available space around New York and New Jersey for hosting and network center.
- Designed and constructed a 25,000 sq. ft. data center managing consulting engineers, construction manager, architects and budget; including HVAC, steel work, DC Plant, power distribution, generator, fiber access.
- Selected colocation sites throughout North America.
- Installed a domestic ATM network using Nortel 7480's and Cisco 7500 routers for data and voice access.
- Migrated Gains private lines from 80 Pine POP to 1 State Street POP.
- Migrated voice private lines to ATM core Network.
- Managed engineers and customer service at 24X7 NOC for North and South America, including network and hosting customers.
- Installed VPN networks to connect dispersed customers around the world.
- Coordinated hosting and network engineers with installations and projects to provide a seamless installation to customer.

**Senior Systems Engineer**  5/96-2/99
Tullett and Tokyo Forex - New York, NY

- Migrated the global GDC network to Alcatel 3645 networking equipment.
- Coordinated the conversion of circuits to groomed digital access to the Gains Network, providing engineering on TLP, signaling (hoot and holler, PLAR, MRD, FXS,FXO) for international transport.
- Prepared the network for separation with Tullett and Tokyo Forex.

**Operations Manager**  11/92-5/96
Tullett and Tokyo Forex - New York, NY

- Moved entire trading floors, coordinating lines, turrets and market data.
- Rebuilt equipment room (8000 sq. ft.) installing generator, DC plant, UPS and HVAC; coordinating with engineers and architects.
- Migrated 350 TEC turrets over to IPC Tradenet MX.
- Managed daily operation including help desk support, provisioning and technicians. Interfacing between trades and administration.

**Senior Network Engineer**  5/90-11/92
Tullett and Tokyo Forex - New York, NY

- Installed and engineered a global GDC Network throughout North and South America with 1100 circuits of voice and data.
- Responsible for engineering each voice and data circuit for provisioning department.
- Designed a 24 line self contained turret for foreign exchange operations.
- Coordinated fiber access with LEC's (NYNEX, Teleport, MFS) for fiber to floor; core drilling 27 floors, conduit, and basement access.
- Migrated 7000 copper circuits over to fiber access.

**Engineer**  9/89-5/90
TEC /Bridge Electronics - New York, NY

- Assisted in the design and development of an auto balancing two to four wire converter for Bridge Trading Systems.
- Designed a four-wire line card for the TEC turret using Motorola 6809 microprocessor and S.P.I.C.E. for circuit design.
- Installed and maintained TEC trading equipment on customer sites providing software and hardware support.
- Responsible for technical support to users.

**Engineer**  6/87-9/89
Nynex - White Plains, NY

- Supervised D4 channel bank installs for special services throughout Westchester, Bronx, Putnam and Rockland.
- Facilitated the retirement of D1D carrier facilities, N carrier, Lenkurk coax systems.

Nynex - New York, NY

- Assigned to the Federal Reserve Bank of New York and Fed Wire.
- Supported Intecom S80+ switch with 16,000 extensions and multiple exchanges.
- Engineered and managed station moves for entire departments across bank campus working with craft personal and bank staff.
- Managed banks data network using VTAM and IBM 3270 controllers.

**Education and Training**
B.E.E., Manhattan College, 1987
Intecom S80-Levels I, II, IIA
NYNEX - Digital Transmission, Traffic Engineering
General Datacom - TMS 3000
Alcatel - 3600, 3645
Nortel Passport 7480
Cisco - Introduction to Routing